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मानक

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“Step Out From the Old to the New”

IS 6943 (1990): Medical Glass Instruments - Cover, glass used with haemocytometers [MHD 10: Medical Laboratory Instruments]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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चिकित्सीय काँच उपकरण — हीमोसाईटोमीटर के साथ प्रयुक्त
कवर काँच — विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

MEDICAL GLASS INSTRUMENTS — COVER
GLASS USED WITH HEMOCYTOMETER —
SPECIFICATION

(*First Revision*)

UDC 616.15-018.1-74

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards on 20 March 1990, after the draft finalized by the Medical Instruments and Disposables Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1973. In this revision, the dimensions have been revised on the basis of the number of rulings, workmanship modified to incorporate the strain requirement, and flatness test has been modified besides adding the requirement of alkalinity for neutral glass.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***MEDICAL GLASS INSTRUMENTS — COVER
GLASS USED WITH HEMOCYTOMETER —
SPECIFICATION***(First Revision)***1 SCOPE**

1.1 This standard prescribes dimensional and other requirements for cover glass used with hemocytometer slides of different rulings.

2 REFERENCE

2.1 The Indian Standard IS 2303 : 1963 'Method of grading glass for alkalinity' is a necessary adjunct to this standard.

3 MATERIAL

3.1 The cover glass shall be made from clear-colourless and neutral glass conforming to Grade 1, 2 or 3 of IS 2303 : 1963.

4 DIMENSIONS

4.1 The cover glass for hemocytometer slides with single ruling shall have a dimension of 22 mm × 16 mm; for slides with double ruling, it shall have a dimension of 25 mm × 20 mm and for slides with four rulings, it shall have a dimension of 35 mm × 22 mm. The tolerance on each of these dimensions shall be ± 1 mm.

4.2 The mean thickness of cover glass for slides with single or double rulings shall be $0.40 \text{ mm} \pm 0.025 \text{ mm}$, and for slides with four rulings, the mean thickness shall be $0.55 \text{ mm} \pm 0.05 \text{ mm}$. The total variation in the thickness within the cover glass shall not exceed 0.025 mm.

5 WORKMANSHIP AND FINISH

5.1 The cover glass shall be well annealed and free from any defects which would interfere with clear vision through it when viewed under a microscope with at least $5 \times$ magnification.

5.2 When seen under polarimeter, the cover glass shall not show strain greater than one sodium light wave length.

5.3 The corners of the cover glass shall be rounded off suitably.

6 TESTS

6.1 The cover glass when laid on an optical flat and moved under gentle pressure for a few seconds, shall not give more than five interference fringes for the smallest size and seven fringes for the other sizes.

7 MARKING

7.1 The container in which the cover glasses are packed shall be marked with the indication of the source of manufacture and the size of the cover-glass.

8 PACKING

8.1 The cover glasses shall be packed as agreed to between the purchaser and the supplier.

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